

GenCore version 5.1.4\_p5\_4578  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: March 15, 2003, 15:07:49 ; Search time 3.1924 Seconds  
(without alignments)  
1537.035 Million cell updates/sec

Title: US-08-978-217-12  
Perfect score: 84  
Sequence: 1 KNSGCKEVEVLQSRN 16

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 15338381 residues  
Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/USFTO.SPOOL/US08978217/runat\_14032003\_141838\_13457/app\_query.fasta\_1.1500  
-DB=Issued\_Patents\_NA -QFWT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
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-WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:\*  
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3: /cgn2\_6/prodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/prodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/prodata/1/ina/PCUS.COMB.seq:\*  
6: /cgn2\_6/prodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	length	DB ID	Description
1	84	100.0	1920	1	US-08-746-789A-1 Sequence 1, Appl1
2	46	54.8	11517	1	US-07-920-281C-1 Sequence 1, Appl1
3	46	54.8	11517	4	US-08-466-277-1 Sequence 1, Appl1
4	45	53.6	7492	4	US-09-299-141-5 Sequence 5, Appl1
5	45	53.6	10627	1	US-08-060-925A-12 Sequence 12, Appl1
6	44	52.4	2763	4	US-09-668-680-8 Sequence 8, Appl1
7	44	52.4	3396	4	US-09-668-680-6 Sequence 6, Appl1
8	44	52.4	3423	4	US-09-668-680-7 Sequence 7, Appl1
9	44	52.4	50000	4	US-09-146-053-4 Sequence 4, Appl1
10	43	51.2	4417	4	US-07-741-453A-57 Sequence 57, Appl1
11	43	51.2	8543	3	US-08-496-944-1 Sequence 1, Appl1
12	42	50.0	694	2	US-08-537-400-15 Sequence 15, Appl1

13	42	50.0	694	2	US-08-706-702-17	Sequence 17, Appl1
14	42	50.0	694	3	US-08-706-706-17	Sequence 17, Appl1
15	42	50.0	1485	3	US-08-484-661A-38	Sequence 38, Appl1
16	42	50.0	1485	3	US-08-656-664-38	Sequence 38, Appl1
17	42	50.0	1485	5	PCT-US96-09641-38	Sequence 38, Appl1
18	42	50.0	1716	3	US-08-484-661A-36	Sequence 36, Appl1
19	42	50.0	1716	3	US-08-656-664-36	Sequence 36, Appl1
20	42	50.0	1716	5	PCT-US96-09641-36	Sequence 36, Appl1
21	42	50.0	1737	3	US-08-484-661A-10	Sequence 10, Appl1
22	42	50.0	1737	3	US-08-656-664-10	Sequence 10, Appl1
23	42	50.0	1737	5	PCT-US96-09641-10	Sequence 10, Appl1
24	42	50.0	1769	4	US-09-257-584-6	Sequence 6, Appl1
25	42	50.0	1833	3	US-08-484-661A-7	Sequence 7, Appl1
26	42	50.0	1833	3	US-08-484-661A-15	Sequence 15, Appl1
27	42	50.0	1833	3	US-08-484-661A-18	Sequence 18, Appl1
28	42	50.0	1833	3	US-08-484-661A-22	Sequence 22, Appl1
29	42	50.0	1833	3	US-08-484-661A-25	Sequence 25, Appl1
30	42	50.0	1833	3	US-08-484-661A-28	Sequence 28, Appl1
31	42	50.0	1833	3	US-08-484-661A-32	Sequence 32, Appl1
32	42	50.0	1833	3	US-08-484-661A-34	Sequence 34, Appl1
33	42	50.0	1833	3	US-08-656-664-7	Sequence 7, Appl1
34	42	50.0	1833	3	US-08-656-664-15	Sequence 15, Appl1
35	42	50.0	1833	3	US-08-656-664-18	Sequence 18, Appl1
36	42	50.0	1833	3	US-08-656-664-22	Sequence 22, Appl1
37	42	50.0	1833	3	US-08-656-664-25	Sequence 25, Appl1
38	42	50.0	1833	3	US-08-656-664-28	Sequence 28, Appl1
39	42	50.0	1833	3	US-08-656-664-32	Sequence 32, Appl1
40	42	50.0	1833	3	US-08-656-664-34	Sequence 34, Appl1
41	42	50.0	1833	5	PCT-US96-09641-7	Sequence 7, Appl1
42	42	50.0	1833	5	PCT-US96-09641-15	Sequence 15, Appl1
43	42	50.0	1833	5	PCT-US96-09641-18	Sequence 18, Appl1
44	42	50.0	1833	5	PCT-US96-09641-22	Sequence 22, Appl1
45	42	50.0	1833	5	PCT-US96-09641-25	Sequence 25, Appl1

#### ALIGNMENTS

RESULT 1  
US-08-746-789A-1 Application US/08746789A  
; Sequence 1, Application US/08746789A  
; Patent No. 5789200  
; GENERAL INFORMATION:  
; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SmithKline Beecham Corporation  
; STREET: 709 Swedeland Road, P.O. Box 1539  
; CITY: King of Prussia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19406-0939  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
; COMPUTER: IBM 486  
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
; SOFTWARE: MICROSOFT WORD  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/746,789A  
; FILING DATE: NO. 5789200ember 15, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: William T. Han  
; REGISTRATION/DOCKET NUMBER: 34,344  
; REFERENCE/DOCKET NUMBER: ATG 50024  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610 270 5219  
; TELEFAX: 610 270 4026  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
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; LENGTH: 1920
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: No
; US-08-746-789A-1

Alignment Scores:
Pred. No.:      8.68e-06      Length:      1920
Score:          84.00         Matches:      16
Percent Similarity: 100.00%    Conservative: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:      100.00%      Indels:      0
DB:               1          Gaps:      0

US-08-978-217-12 (1-16) x US-08-746-789A-1 (1-1920)

Qy      1  LysaenSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db      1180 AAAAAGCTCAAGCGCTGGAGAGAGAGAGGTTCTCCAGAGTCGGAAC 1227

RESULT 2
US-07-920-281C-1
; Sequence 1, Application US/07920281C
; Patent No. 5739026
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; TITLE OF INVENTION: DNA Expression Systems Based on
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/920,281C
; FILING DATE: 13-AUG-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11517 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: RNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Semliki Forest Virus
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..11517 /label= genome
; OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide
; OTHER INFORMATION: sequence, presented as a cloned DNA sequence; see
; OTHER INFORMATION: Figure 5."
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; FEATURE:
; NAME/KEY: CDS
; LOCATION: 87..7379
; OTHER INFORMATION: /product= "sfv polypeptide"
;
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 7421..11179
; OTHER INFORMATION: /product= "sfv polypeptide"
; US-07-920-281C-1

Alignment Scores:
Pred. No.:      398          Length:      11517
Score:          46.00         Matches:      7
Percent Similarity: 85.71%    Conservative: 5
Best Local Similarity: 50.00% Mismatches:    2
Query Match:      54.76%      Indels:      0
DB:               1          Gaps:      0

US-08-978-217-12 (1-16) x US-07-920-281C-1 (1-11517)

Qy      3  SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db      675 GCCAAGAACTGGCGGACGACGAGGTGTACAGGCCAGGAAC 716

RESULT 3
US-08-466-277-1
; Sequence 1, Application US/08466277
; Patent No. 6190666
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; TITLE OF INVENTION: DNA Expression Systems Based on
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,277
; FILING DATE: 06-Jun-1995
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/920,281
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11517 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: RNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Semliki Forest Virus
; FEATURE:
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; NAME/KEY:
; LOCATION: 1..11517
; OTHER INFORMATION: /label= genome
; /note= "Semliki Forest Virus complete nucleotide
; sequence, presented as a cloned DNA sequence; see
; Figure 5."
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 87..7379
; OTHER INFORMATION: /product= "SFV polypeptide"
;
; NAME/KEY: CDS
; LOCATION: 7421..11179
; OTHER INFORMATION: /product= "SFV polypeptide"
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-08-466-277-1

Alignment Scores:
Pred. No.: 398 Length: 11517
Score: 46.00 Matches: 7
Percent Similarity: 85.71% Conservative: 5
Best Local Similarity: 50.00% Mismatches: 2
Query Match: 54.76% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-08-466-277-1 (1-11517)
Qy 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 675 GCCACAACTGGCGCCGACGAGGTGTACAGCCAGCAAC 716

RESULT 4
US-09-299-141-5/C
; Sequence 5: Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, SIHONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; CURRENT FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: 60/083,025
; EARLIER FILING DATE: 1998-04-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 7492
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: p43C-AT-IN
US-09-299-141-5

Alignment Scores:
Pred. No.: 359 Length: 7492
Score: 45.00 Matches: 10
Percent Similarity: 61.90% Conservative: 3
Best Local Similarity: 47.62% Mismatches: 2
Query Match: 53.57% Indels: 6
DB: 4 Gaps: 1

US-08-978-217-12 (1-16) x US-09-299-141-5 (1-7492)
Qy 2 AsnSerGlyTrp-----LysGluGluValLeuGlnSerArg 15
Db 813 AACAGCTCAGGCTGTGAGCACTTACCTTTAAAGAGATGTAATTCACACAGCAAA 754
Qy 16 Asn 16
Db 753 AAC 751
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RESULT 5
US-08-060-925A-12/C
; Sequence 12: Application US/08060925A
; Patent No. 5439824
; GENERAL INFORMATION:
; APPLICANT: Brantley, Mark
; APPLICANT: Laubach, Victor
; TITLE OF INVENTION: INCREASED EXPRESSION OF ALPHA-1
; TITLE OF INVENTION: ANTITRYPSIN IN EXPRESSION VECTORS THROUGH THE INCLUSION OF
; TITLE OF INVENTION: INTERON II
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KNOBE, MARTENS, OLSON AND BEAR
; STREET: 620 NEWPORT CENTER DRIVE SIXTEENTH FLOOR
; CITY: NEWPORT BEACH
; STATE: CA
; COUNTRY: USA
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/060,925A
; FILING DATE: 06-MAY-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael L.
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH040.001A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-235-8550
; TELEFAX: 619-235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10627 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-060-925A-12

Alignment Scores:
Pred. No.: 544 Length: 10627
Score: 45.00 Matches: 10
Percent Similarity: 61.90% Conservative: 3
Best Local Similarity: 47.62% Mismatches: 2
Query Match: 53.57% Indels: 6
DB: 1 Gaps: 1

US-08-978-217-12 (1-16) x US-08-060-925A-12 (1-10627)
Qy 2 AsnSerGlyTrp-----LysGluGluValLeuGlnSerArg 15
Db 6394 AACAGCTCAGGCTGTGAGCACTTACCTTTAAAGAGATGTAATTCACACAGCAAA 6335
Qy 16 Asn 16
Db 6334 AAC 6332

RESULT 6
US-09-668-680-8/C
; Sequence 8: Application US/09668680
; Patent No. 6436703
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Aseudi, Vinod
```

```

; APPLICANT: Zhang, Jie
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Xu, Aidong J.
; APPLICANT: Xu, Chongjun
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6436703el Nucleic Acids and
; FILE REFERENCE: 790CIP2A
; CURRENT APPLICATION NUMBER: US/09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_fl_genes Version 2.0
; SEQ ID NO 8
; LENGTH: 2763
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (180)..(1742)
; US-09-668-680-8

Alignment Scores:
Pred. No.: 165          Length: 2763
Score: 44.00           Matches: 8
Percent Similarity: 66.67% Conservative: 2
Best Local Similarity: 53.33% Mismatches: 5
Query Match: 52.38%     Indels: 0
                        Gaps: 0
                        DB: 4

US-08-978-217-12 (1-16) x US-09-668-680-8 (1-2763)

Qy 2 AaenSerglYTrpLygLuGlUaValLeuGlnSerArgaAn 16
Db 1342 TCACACTCTGGGTGAAGTCTTCTCTTGGCCAGCTTAGAAAC 1298

RESULT 7
US-09-668-680-6/c
; Sequence 6, Application US/09668680
; Patent No. 6436703
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Xu, Aidong J.
; APPLICANT: Xu, Chongjun
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6436703el Nucleic Acids and
; FILE REFERENCE: 790CIP2A
; CURRENT APPLICATION NUMBER: US/09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_fl_genes Version 2.0
; SEQ ID NO 6
; LENGTH: 3396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(2375)
; US-09-668-680-6
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Alignment Scores:
Pred. No.: 211          Length: 3396
Score: 44.00           Matches: 8
Percent Similarity: 66.67% Conservative: 2
Best Local Similarity: 53.33% Mismatches: 5
Query Match: 52.38%     Indels: 0
                        Gaps: 0
                        DB: 4

US-08-978-217-12 (1-16) x US-09-668-680-6 (1-3396)

Qy 2 AaenSerglYTrpLygLuGlUaValLeuGlnSerArgaAn 16
Db 1975 TCACACTCTGGGTGAAGTCTTCTCTTGGCCAGCTTAGAAAC 1931

RESULT 8
US-09-668-680-7/c
; Sequence 7, Application US/09668680
; Patent No. 6436703
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Xu, Aidong J.
; APPLICANT: Xu, Chongjun
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6436703el Nucleic Acids and
; FILE REFERENCE: 790CIP2A
; CURRENT APPLICATION NUMBER: US/09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_fl_genes Version 2.0
; SEQ ID NO 7
; LENGTH: 3423
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(2402)
; US-09-668-680-7

Alignment Scores:
Pred. No.: 213          Length: 3423
Score: 44.00           Matches: 8
Percent Similarity: 66.67% Conservative: 2
Best Local Similarity: 53.33% Mismatches: 5
Query Match: 52.38%     Indels: 0
                        Gaps: 0
                        DB: 4

US-08-978-217-12 (1-16) x US-09-668-680-7 (1-3423)

Qy 2 AaenSerglYTrpLygLuGlUaValLeuGlnSerArgaAn 16
Db 2002 TCACACTCTGGGTGAAGTCTTCTCTTGGCCAGCTTAGAAAC 1958

RESULT 9
US-09-146-053-4/c
; Sequence 4, Application US/09146053A
; Patent No. 6399349
; GENERAL INFORMATION:
; APPLICANT: Ryan, James W.
; APPLICANT: Sprinkle, Terry Joe Curtis
; APPLICANT: Venema, Richard C.
; TITLE OF INVENTION: Human Aminopeptidase P Gene
; FILE REFERENCE: MCG103
; CURRENT APPLICATION NUMBER: US/09/146,053A
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;; CURRENT FILING DATE: 1998-09-02  
;; EARLIER APPLICATION NUMBER: 60/057,854  
;; EARLIER FILING DATE: 1997-09-02  
;; NUMBER OF SEQ ID NOS: 7  
;; SOFTWARE: Patentin Ver. 2.0  
;; SEQ ID NO: 4  
;; LENGTH: 50000  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-146-053-4

Alignment Scores:  
Pred. No.: 5.15e+03 Length: 50000  
Score: 44.00 Matches: 7  
Percent Similarity: 73.33% Conservative: 4  
Best Local Similarity: 46.67% Mismatches: 4  
Query Match: 52.38% Indels: 0  
DB: Gaps: 0

US-08-978-217-12 (1-16) x US-09-146-053-4 (1-50000)

QY 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArg 15  
Db 30660 AAAAATTCCTGACATGAAAGAGAGAACTGTGACTAATAG 30616

RESULT 10  
US-07-741-453A-57/c  
; Sequence 57, Application US/07741453A  
; Patent No. 6228597  
; GENERAL INFORMATION:  
; APPLICANT: PARMENTIER, MARC  
; APPLICANT: LIBERT, FREDERIC  
; APPLICANT: DUMONT, JACQUES  
; APPLICANT: VASSART, GILBERT  
; TITLE OF INVENTION: POLYPEPTIDES HAVING THYROTROPIN-RECEPTOR  
; TITLE OF INVENTION: ACTIVITY, NUCLEIC ACID SEQUENCES CODING FOR SUCH RECEPTORS  
; TITLE OF INVENTION: AND POLYPEPTIDES, AND APPLICATIONS OF THESE POLYPEPTIDES  
; NUMBER OF SEQUENCES: 62  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN  
; STREET: 1615 L STREET, N.W.  
; CITY: WASHINGTON, D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/741,453A  
; FILING DATE: 19911015  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KOKULIS, PAUL N.  
; REGISTRATION NUMBER: 16773  
; REFERENCE/DOCKET NUMBER: 91913/1107/US/ST  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 861-3000  
; TELEFAX: (202) 822-0944  
; TELEX: 6714627 CUSH  
; INFORMATION FOR SEQ ID NO: 57:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4417 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
US-07-741-453A-57

Alignment Scores:  
Pred. No.: 434 Length: 4417  
Score: 43.00 Matches: 8

Percent Similarity: 71.43% Conservative: 2  
Best Local Similarity: 57.14% Mismatches: 4  
Query Match: 51.19% Indels: 0  
DB: Gaps: 0

US-08-978-217-12 (1-16) x US-07-741-453A-57 (1-4417)

QY 3 SerSerGlyTrpLysGluGluValLeuGlnSerArg 16  
Db 3738 TCACACAGTTGAAAGGCTGACAGTTTTCGAGAGAAAC 3697

RESULT 11  
US-08-496-944-1  
; Sequence 1, Application US/08496944  
; Patent No. 6040496  
; GENERAL INFORMATION:  
; APPLICANT: Law, Marcus D  
; APPLICANT: Dietz, Don M  
; TITLE OF INVENTION: Use of Translationally altered RNA to  
; TITLE OF INVENTION: Confer Resistance to Maize Dwarf Mosaic Virus and Other  
; TITLE OF INVENTION: Monocytiledonous Plant Viruses  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CIBA-Geigy Corporation  
; STREET: 7 Skyline Drive  
; CITY: Hawthorne  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10532  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30B  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/496,944  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Elmer, James Scott  
; REGISTRATION NUMBER: 36,129  
; REFERENCE/DOCKET NUMBER: CGC 1814  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8543 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: RNA (genomic)  
; HYPOTHETICAL: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 3..8291 /product= "polyprotein encoded by  
; OTHER INFORMATION: MDV-B genome"  
; FEATURE:  
; NAME/KEY: 3'UTR  
; LOCATION: 8292..8530  
; FEATURE:  
; NAME/KEY: misc\_RNA  
; LOCATION: 3..1133  
; OTHER INFORMATION: /product= "3-prime sequence for  
; OTHER INFORMATION: HC-Pro"  
; FEATURE:  
; NAME/KEY: misc\_RNA  
; LOCATION: 1134..2375  
; OTHER INFORMATION: /product= "P3 proteinase"  
; FEATURE:  
; NAME/KEY: misc\_RNA  
; LOCATION: 2376..4292  
; OTHER INFORMATION: /product= "cylindrical inclusion  
; OTHER INFORMATION: protein"

NAME/KEY: misc\_RNA  
LOCATION: 4293..4451  
OTHER INFORMATION: /product= "K2 (6kd protein)"  
FEATURE:  
NAME/KEY: misc\_RNA  
LOCATION: 4452..5744  
OTHER INFORMATION: /product= "N1a proteinase"  
FEATURE:  
NAME/KEY: misc\_RNA  
LOCATION: 5745..7307  
OTHER INFORMATION: /product= "N1b replicase"  
FEATURE:  
NAME/KEY: misc\_RNA  
LOCATION: 7308..8291  
OTHER INFORMATION: /product= "coat protein"  
US-08-978-944-1

Alignment Scores:  
Pred. No.: 949 Length: 8543  
Score: 43.00 Matches: 7  
Percent Similarity: 56.25% Conservative: 2  
Best Local Similarity: 43.75% Mismatches: 7  
Query Match: 51.19% Indels: 0  
DB: 3 Gaps: 0

US-08-978-217-12 (1-16) x US-08-946-944-1 (1-8543)

QY 1 LysAnserSerGlyTyrPylGluGluValLeuGlnSerArgAsn 16  
Db 3209 CGUAAUCAAAGUGAUGCCGCAACAUAUGAACAACACACAGGAU 3256

RESULT 12  
US-08-537-400-15  
Sequence 15, Application US/08537400  
Patent No. 5939301  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: Cloned DNA Polymerases From Thermotoga  
TITLE OF INVENTION: neapolitana And Mutants Thereof  
NUMBER OF SEQUENCES: 37  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
STREET: 1100 New York Avenue, N.W., Suite 600  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/537,400  
FILING DATE: 02-OCT-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/316,423  
FILING DATE: 30-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/370,190  
FILING DATE: 09-JAN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Esmond, Robert W.  
REGISTRATION NUMBER: 32,893  
REFERENCE/DOCKET NUMBER: 0942.2800002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 694 base pairs  
TYPE: nucleic acid

STRANDEDNESS: double  
TOPOLOGY: both  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..694  
US-08-537-400-15

Alignment Scores:  
Pred. No.: 72.4 Length: 694  
Score: 42.00 Matches: 6  
Percent Similarity: 91.67% Conservative: 5  
Best Local Similarity: 50.00% Mismatches: 1  
Query Match: 50.00% Indels: 0  
DB: 2 Gaps: 0

US-08-978-217-12 (1-16) x US-08-537-400-15 (1-694)

QY 1 LysAnserSerGlyTyrPylGluGluValLeu 12  
Db 169 AGAAATGCGACGGGTGGAAAGATGTGAATCTCTC 204

RESULT 13  
US-08-706-702-17  
Sequence 17, Application US/08706702  
Patent No. 5948614  
GENERAL INFORMATION:  
APPLICANT: Chatterjee, Deb K.  
TITLE OF INVENTION: Cloned DNA Polymerases from Thermotoga  
TITLE OF INVENTION: martima and Mutants Thereof  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 New York Ave., N.W., Suite 600  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/706,702  
FILING DATE: 06-SEP-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/689,807  
FILING DATE: 14-AUG-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/537,400  
FILING DATE: 02-OCT-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/576,759  
FILING DATE: 21-DEC-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/537,397  
FILING DATE: 02-OCT-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/525,057  
FILING DATE: 08-SEP-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Esmond, Robert W.  
REGISTRATION NUMBER: 32,893  
REFERENCE/DOCKET NUMBER: 0942.2800006  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2540  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 694 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double

```

:      TOPOLOGY: both
:      MOLECULE TYPE: cDNA
:      FEATURE:
:      NAME/KEY: CDS
:      LOCATION: 2..691
:      US-08-706-702-17
:
: Alignment Scores:
: Pred. No.: 72.4
: Score: 42.00
: Percent Similarity: 51.67%
: Best Local Similarity: 50.00%
: Query Match: 50.00%
: DB: 2
:      Gaps: 0
:
: US-08-978-217-12 (1-16) x US-08-706-702-17 (1-694)
:
:      1  LysAnserSerGlyTrrPlyGluGluGluValIleu 12
:      ::|||::|||::|||::|||::|||::|||::|||::|||
: Db      169  AGAAATGCGACGGTTGGAAAGATCGTCACTTCTC 204
:
: RESULT 14
: US-08-706-706-17
: Sequence 17, Application US/08706706
: Patent No. 6015668
:
: GENERAL INFORMATION:
: APPLICANT: Hughes, A. John
: APPLICANT: Chatterjee, Deb K.
: TITLE OF INVENTION: Cloned DNA Polymerases from Thermocoga and
: NUMBER OF SEQUENCES: 26
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: STERNB, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
: STREET: 1100 New York Ave., N.W., Suite 600
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20005-3934
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/706,706
: FILING DATE: 06-SEP-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/689,807
: FILING DATE: 14-AUG-1996
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/537,400
: FILING DATE: 02-OCT-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/370,190
: FILING DATE: 01-JAN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/316,423
: FILING DATE: 30-SEP-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/576,759
: FILING DATE: 21-DEC-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/537,397
: FILING DATE: 02-OCT-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/525,057
: FILING DATE: 08-SEP-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Esmond, Robert W.
: REGISTRATION NUMBER: 32,893
: REFERENCE/DOCKET NUMBER: 0942,2800005
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-371-2600

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1 TELEFAX: 202-371-2540
2 INFORMATION FOR SEQ ID NO: 17:
3 SEQUENCE CHARACTERISTICS:
4 LENGTH: 694 base pairs
5 type: nucleic acid
6 STRANDEDNESS: double
7 TOPOLOGY: both
8 MOLECULE TYPE: cDNA
9 FEATURE:
10 NAME/KEY: CDS
11 LOCATION: 2..691
12 US-08-706-706-17
13
14 Alignment Scores:
15 Pred. No.: 72.4 length: 694
16 Score: 42.00 Matches: 6
17 Percent Similarity: 91.67% Conservative: 5
18 Best Local Similarity: 50.00% Mismatches: 1
19 Query Match: 50.00% Indels: 0
20 Gaps: 0
21 DB: 3
22
23 US-08-978-217-12 (1-16) x US-08-706-706-17 (1-694)
24
25 Qy 1 LysaNserserGlyTrrpLysGluGluValIleu 12
26 ::|||::|||::|||::|||::|||::|||::|||
27 Db 169 AGAATGCGACGGCTTGGAAGAAAGATGGTGAACCTTCTC 204
28
29 RESULT 15
30 US-08-484-661A-38
31 Sequence 38, Application US/08484661A
32 Patent No. 6001645
33
34 GENERAL INFORMATION:
35 APPLICANT: SLATER, MICHAEL R.
36 APPLICANT: HARTNETT, JAMES R.
37 APPLICANT: HUANG, FEN
38 APPLICANT: BOCHAKOVA, ELENA
39 TITLE OF INVENTION: MODIFIED THERMOPHILIC DNA POLYMERASES
40 TITLE OF INVENTION: FROM THERMOTOGA NEAPOLITANA
41 NUMBER OF SEQUENCES: 51
42 CORRESPONDENCE ADDRESS:
43 ADDRESSEE: MEDLEN & CARROLL
44 STREET: 220 MONTGOMERY STREET, SUITE 2200
45 CITY: SAN FRANCISCO
46 STATE: CALIFORNIA
47 COUNTRY: UNITED STATES OF AMERICA
48 ZIP: 94104
49
50 COMPUTER READABLE FORM:
51 MEDIUM TYPE: Floppy disk
52 COMPUTER: IBM PC compatible
53 OPERATING SYSTEM: PC-DOS/MS-DOS
54 SOFTWARE: Patent In Release #1.0, Version #1.25
55 CURRENT APPLICATION DATA:
56 APPLICATION NUMBER: US/08/484,661A
57 FILING DATE: 07-JUN-1995
58 CLASSIFICATION: 435
59 ATTORNEY/AGENT INFORMATION:
60 NAME: INGOLIA, DIANE E.
61 REGISTRATION NUMBER: 40,027
62 REFERENCE/DOCKET NUMBER: PRMC-01175
63 TELECOMMUNICATION INFORMATION:
64 TELEPHONE: (415) 705-8410
65 TELEFAX: (415) 397-8358
66 INFORMATION FOR SEQ ID NO: 38:
67 SEQUENCE CHARACTERISTICS:
68 LENGTH: 1485 base pairs
69 type: nucleic acid
70 STRANDEDNESS: double
71 TOPOLOGY: linear
72 MOLECULE TYPE: DNA (genomic)
73 FEATURE:
74 NAME/KEY: CDS
75 LOCATION: 1..1482
76 US-08-484-661A-38

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## Alignment Scores:

Pred. No.:	179	Length:	1485
Score:	42.00	Matches:	6
Percent Similarity:	91.67%	Conservative:	5
Best Local Similarity:	50.00%	Mismatches:	1
Query Match:	50.00%	Indels:	0
DB:	3	Gaps:	0

US-08-978-217-12 (1-16) x US-08-484-661A-38 (1-1485)

QY 1 LysAsnSerSerGlyTyrPlySGluGluValLeu 12

Db 960 AGAAATGCGACGCGTTGGAAAGATGATGTAACCTTC 995

Search completed: March 15, 2003, 23:33:09  
Job time : 12.1924 secs